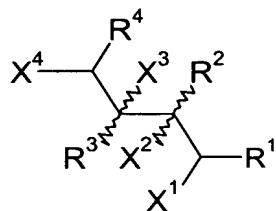


IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): A process for removing horny substances from hides of dead animals, wherein the hides of dead animals are treated with at least one substance of the formula I



or at least one corresponding alkali metal, alkaline earth metal, ammonium or phosphonium salt,

where

R<sup>1</sup> and R<sup>4</sup> are identical or different and are selected from hydrogen, C<sub>6</sub>-C<sub>14</sub>-aryl and C<sub>1</sub>-C<sub>12</sub>-alkyl, unsubstituted or substituted by one or more SH or OH groups,

R<sup>2</sup> and R<sup>3</sup> are identical or different and are selected from hydrogen, C<sub>6</sub>-C<sub>14</sub>-aryl and C<sub>1</sub>-C<sub>12</sub>-alkyl, unsubstituted or substituted by one or more SH or OH groups,

at least one radical R<sup>2</sup> or R<sup>3</sup> not being hydrogen

or R<sup>1</sup> and R<sup>4</sup> not being hydrogen,

and it being possible in each case for two vicinal radicals R<sup>1</sup> to R<sup>4</sup> together to be alkylene,

R<sup>5</sup> is selected from hydrogen, C<sub>1</sub>-C<sub>12</sub>-alkyl, H-C=O or C<sub>1</sub>-C<sub>4</sub>-alkyl-C=O,

X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup> and X<sup>4</sup> are selected from OH, SH and NHR<sup>5</sup>, where,

if R<sup>1</sup> to R<sup>4</sup> contain at least one sulfur atom, at least one radical X<sup>1</sup> to X<sup>4</sup> is SH,

and, if R<sup>1</sup> to R<sup>4</sup> contain no sulfur atom, at least two radicals X<sup>1</sup> to X<sup>4</sup> are SH.

Claim 2 (Original): A process according to claim 1, which is carried out in aqueous liquor.

Claim 3 (Currently Amended): A process according to claim 1 [[or 2]], which is carried out in the presence of basic alkali metal salts.

Claim 4 (Currently Amended): A process according to ~~any of claims 1 to 3~~ claim 1, wherein X<sup>1</sup> and X<sup>4</sup> are each SH.

Claim 5 (Currently Amended): A process according to ~~any of claims 1 to 4~~ claim 1, wherein

R<sup>1</sup> and R<sup>4</sup> are hydrogen,

R<sup>2</sup> is methyl,

R<sup>3</sup> is selected from hydrogen and methyl,

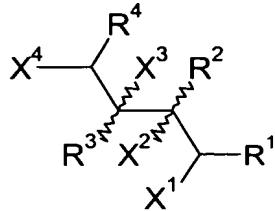
X<sup>1</sup> and X<sup>4</sup> are each SH and

X<sup>2</sup> and X<sup>3</sup> are each OH.

Claim 6 (Currently Amended): A process according to ~~any of claims 1 to 5~~ claim 1, which is carried out in the presence of at least one enzyme.

Claim 7 (Currently Amended): A pelt obtainable by a process according to ~~any of claims 1 to 6~~ claim 1.

Claim 8 (Original): A compound of the formula I



and its corresponding alkali metal, alkaline earth metal, ammonium and phosphonium salts,

where

R<sup>1</sup> and R<sup>4</sup> are identical or different and are selected from hydrogen, C<sub>6</sub>-C<sub>14</sub>-aryl and C<sub>1</sub>-C<sub>12</sub>-alkyl, unsubstituted or substituted by one or more SH or OH groups,

R<sup>2</sup> and R<sup>3</sup> are identical or different and are selected from hydrogen, C<sub>6</sub>-C<sub>14</sub>-aryl and C<sub>1</sub>-C<sub>12</sub>-alkyl, unsubstituted or substituted by one or more SH or OH groups,

at least one radical R<sup>2</sup> or R<sup>3</sup> not being hydrogen

or R<sup>1</sup> and R<sup>4</sup> not being hydrogen,

and it being possible in each case for two vicinal radicals R<sup>1</sup> to R<sup>4</sup> together to be alkylene,

R<sup>5</sup> is selected from hydrogen, C<sub>1</sub>-C<sub>12</sub>-alkyl, H-C=O or C<sub>1</sub>-C<sub>4</sub>-alkyl-C=O,

X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup> and X<sup>4</sup> are selected from OH, SH and NHR<sup>5</sup>, where,

if R<sup>1</sup> to R<sup>4</sup> contain at least one sulfur atom, at least one radical X<sup>1</sup> to X<sup>4</sup> is SH,

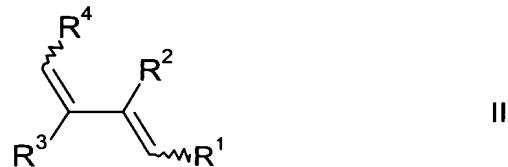
and, if R<sup>1</sup> to R<sup>4</sup> contain no sulfur atom, at least two radicals X<sup>1</sup> to X<sup>4</sup> are SH.

Claim 9 (Original): A compound according to claim 8, wherein X<sup>1</sup> and X<sup>4</sup> are each SH.

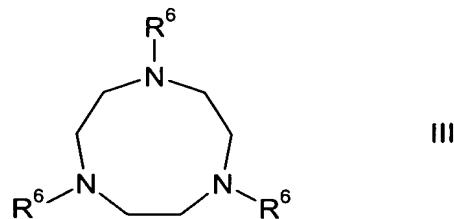
Claim 10 (Currently Amended): A compound according to claim 8 [[or 9]], wherein R<sup>1</sup> and R<sup>4</sup> are hydrogen,  
R<sup>2</sup> is methyl,  
R<sup>3</sup> is hydrogen or methyl,  
X<sup>1</sup> and X<sup>4</sup> are each SH and  
X<sup>2</sup> and X<sup>3</sup> are each OH.

Claim 11 (Original): A process for the preparation of compounds of the formula I,  
wherein

(a) in a first stage, a diene of the formula II



is reacted in the presence of a catalyst which is obtainable by bringing into contact  
at least one manganese compound, selected from A<sub>2</sub>Mn(Y<sup>1</sup>)<sub>4</sub>, AMn(Y<sup>1</sup>)<sub>3</sub>, MnY<sup>2</sup>,  
Mn(Y<sup>1</sup>)<sub>2</sub> and Mn(Y<sup>1</sup>)<sub>3</sub>  
with at least one ligand L of the formula III



where

$Y^1$  are identical or different and are selected from monovalent anions,

$Y^2$  is a divalent anion,

$A$  is selected from alkali metal and ammonium, which may be alkylated,

$R^6$  are identical or different and are selected from C<sub>1</sub>-C<sub>20</sub>-alkyl,

and with at least one coligand which is derived from monocarboxylic acid, dibasic or polybasic carboxylic acids or diamines,

with at least one peroxide to give the bisepoxide,

(b) which is reacted in the presence of at least one basic catalyst with at least one nucleophile.

Claim 12 (Original): A process according to claim 11, wherein the coligand is oxalate.

Claim 13 (Currently Amended): A process according to ~~either of claims 11 and 12~~  
claim 11, wherein the nucleophile chosen is H<sub>2</sub>S or H<sub>2</sub>N-R<sup>5</sup>.

Claim 14 (Currently Amended): A process according to ~~any of claims 11 to 13 claim~~  
11, wherein at least one basic catalyst in stage (b) is selected from alkali metal hydrogen sulfide, alkali metal hydroxide and benzyltri(C<sub>1</sub>-C<sub>10</sub>-alkyl)ammonium hydroxide.

Claim 15 (Currently Amended): A process according to ~~any of claims 11 to 14 claim~~  
11, wherein X<sup>1</sup> and X<sup>4</sup> are each SH.

Claim 16 (Currently Amended): A process according to ~~any of claims 11 to 15 claim~~  
11, wherein, in formula I, the variables are chosen as follows:

$R^1$  and  $R^4$  are hydrogen,

$R^2$  is methyl,

$R^3$  is hydrogen or methyl,

$X^1$  and  $X^4$  are each SH and

$X^2$  and  $X^3$  are each OH,

and wherein  $H_2S$  is chosen as the nucleophile.